

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,190	09/08/2003	Nobuhiro Miki	21776-00042-US	8417
30678	7590 08/30/2006		EXAM	INER
CONNOLLY	BOVE LODGE & HUTZ	KORNAKOV, MICHAIL		
P.O. BOX 2207 WILMINGTON, DE 19899-2207			ART UNIT	PAPER NUMBER
			1746	
		DATE MAILED: 08/30/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Comments	10/656,190	MIKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Michael Kornakov	1746			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	n the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period in Failure to reply within the set or extended period for reply will, by statute the Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION ATE OF THIS COMMUNICATION AND A THIS COMMUNIC	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27 F	ebruary 2006.				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowa	nce except for formal matte	rs, prosecution as to the merits is			
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-5,8,10-13,18 and 19</u> is/are pending	in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) <u>1-5, 8, 10-13, 18, 19</u> are subject to re	estriction and/or election req	uirement.			
Application Papers					
9) The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by	y the Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correc					
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority document					
2. Certified copies of the priority document					
 Copies of the certified copies of the prio application from the International Burea 		eceived in this National Stage			
* See the attached detailed Office action for a list		eceived.			
200 the attacked actained embed action for a not	. 2 varianta dapida ilatit				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Su	mmary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	Mail Date promal Patent Application (PTO-152)			
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	6) Other:				

Art Unit: 1746

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-5, 8, drawn to a surface purification apparatus, classified in class
 134, subclass 107.
 - II. Claim 10, drawn to another surface purification apparatus, classified in class 134, subclass 104.2
 - III. Claims 11-13, 18, drawn to a surface purification method, classified in class 134, subclass 31.
 - IV. Claim 19, drawn to another surface purification method, classified in class134, subclass 36.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions of Group I and Group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because it does not require means for generating **mist**-containing steam. The subcombination has separate utility such as oxidizing device.

Art Unit: 1746

3. Inventions of Group III and Group IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because it does not require treatment of the surface under processing with mist-containing steam. The subcombination has separate utility such as oxidizing process.

- 4. Inventions of Group I and Group III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used for oxidizing different substrates, which is materially different from purification.
- 5. Inventions of Group II and Group IV are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another and materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used for oxidizing different substrates, which is materially different from purification.
- 6. Inventions of Group I and Group IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have

Art Unit: 1746

different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the inventions of Group I and Group IV are not disclosed as capable of use together and they have different designs and modes of operation since the invention of Group I calls for means for generating mist containing steam, while the invention of Group IV recites the step of generating and applying superheated steam.

- 7. Inventions of Group II and Group III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the inventions of Group II and Group III are not disclosed as capable of use together and they have different designs and modes of operation since the invention of Group II calls for means for generating superheated steam, while the invention of Group III recites the step of generating and applying mist-containing saturated steam.
- 8. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- 9. Because these inventions are independent or distinct for the reasons given above and the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 10. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

Art Unit: 1746

requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

11. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Kornakov whose telephone number is (571) 272-1303. The examiner can normally be reached on 9:00am - 5:30pm.

Art Unit: 1746

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael Kornakov Primary Examiner Art Unit 1746

08/28/2006